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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATT	TORNEY DOCKET NO.
Γ_			EX	AMINER
	tic Taran	on te Koles Coles	ART-UNIT	PAPER NUMBER
e de la companya de l	eries de la companya		DATE MAILED:	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Applicant(s)			
Office Action Summary		09/503,553	Christopher Pierrat			
		Examiner	Art Unit			
		Khaled Brown	2851			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication of period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days also ply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this communication.			
1) <u></u>	Responsive to communication(s) filed on 44 F	ohmun 2000				
²a)☐	Responsive to communication(s) filed on <u>11 F</u> This action is FINAL . 2b)⊠ Thi					
3)	٠,۵ ٠	s action is non-final.				
الــا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)	Claim(s) 23-62 is/are pending in the application	١.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊡	Claim(s) <u>23-62</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9) 🗌 -	The specification is objected to by the Examiner.					
10)[The drawing(s) filed on <u>11 February 2000</u> is/are:	a)⊠ accepted or b) objected to l	by the Examiner.			
	Applicant may not request that any objection to the					
11) 🔲 🗆	he proposed drawing correction filed on	is: a)☐ approved b)☐ disapprov	ed by the Examiner.			
	If approved, corrected drawings are required in repl					
12) 🔲 1	he oath or declaration is objected to by the Exa	miner.				
Priority u	nder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a)[All b) Some * c) None of:					
	1. Certified copies of the priority documents	have been received.				
	2. Certified copies of the priority documents	have been received in Applicatio	n No			
	3. Copies of the certified copies of the priorit application from the International Bure see the attached detailed Office action for a list of	au (PCT Rule 17.2(a)).	_			
14) 🗌 A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e)	(to a provisional application).			
a)	☐ The translation of the foreign language provice the translation of the foreign language provices the translation of the foreign language provides th	sional application has been rece	ived.			
Attachment(s)					
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) 7.	4) Interview Summary (5) Notice of Informal Pa 6) Other:	PTO-413) Paper No(s) tent Application (PTO-152)			
Patent and Tra TO-326 (Rev		on Summary	Part of Paper No. 9			

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 23,32,34,36 and 39 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1,3, (4 and 33), 1,1 respectively of U.S. Patent No. 6096457. Although the conflicting claims are not identical, they are not patentably distinct from each other because The 6096457 patent obviously has a means for optimizing "off-axis illumination parameters" to "compensate for the effects of the phase error" and that means corresponds to "a restrictor" as claimed in the instant application.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 23-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Shiraishi (US 6211944).

Re clms 23-62: Shiraishi discloses a system (Fig 1), comprising: an illuminator (1); a phase shifting mask (13a); and a restrictor (58 controls 17) adapted for adjusting illumination parameters to compensate for a phase shift error (Col 11, lines 33-45) in the phase shifting mask, a restrictor providing off-axis illumination is disclosed (Col 3 lines 3-12) and restrictor optimizes printing of the alternating phase shifting mask using empirical data (Col 12 line 10) taken from one or more simulations of an image on the alternating phase shifting mask.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Jewell et al 4947413 and Yang 6277526.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khaled Brown whose telephone number is 703-306-5738. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell E. Adams can be reached on 703-308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

KB

September 10, 2001

Junell & Chiller RUSSELL ADAMS

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800